

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCR5 transfectants but not the parental cell line in Flow Cytometry and Western blots.
Source	Recombinant Monoclonal Rat IgG _{2B} Clone # 225307
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	C6 rat glioma cell line transfected with mouse CCR5 Accession # P51682
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Mouse CCR5 and eGFP

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CCR5 (CC chemokine receptor 5; also CD195 and MIP-1a receptor) is a 41 - 44 kDa member of the G-protein coupled receptor #1 family of proteins. It is expressed on Treg cells, NK cells, neurons, macrophages and Th1 cells. CCR5 mediates cell adhesion and migration induced by several chemokines including CCL3/MIP-1α, CCL4/MIP-1β, CCL5/RANTES, and CCL8/MCP-2. It also functions as a coreceptor for macrophage-tropic HIV-1 infection. CCR5 contains an O-glycosylated and sulfated extracellular N-terminus (aa 1 - 32), and a phosphorylated and palmitoylated intracellular C-terminus (aa 304 - 354). CCR5 will form homodimers, heterodimers with CCR2, and heterooligomers with CCR2 and CXCR4. Within aa 1 - 32, mouse CCR5 shares 72% and 91% amino acid sequence identity with human and rat CCR5, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.